

## NEW UNITED STATES UTILITY PATENT APPLICATION TRANSMITTAL

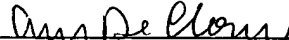
Atty. Docket No.: 4231/2055R

**CERTIFICATE OF MAILING UNDER 37 CFR 1.10**

I hereby certify that the paper (and any paper or fee referred to as being enclosed) is being deposited with the United States Postal Service using Express Mail to Addressee Service, under 37 C.F.R. Section 1.10, **Express Mail Label No. E2312756595US** on this date, **March 30, 2004**, postage prepaid, in an envelope addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Amy Decloux

Name of Person Mailing Paper

  
 Signature of Person Mailing Paper

Mail Stop Patent Application  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

**Enclosed herewith is a new patent application of:**

First Named Inventor (or application identifier): Choong-Chin Liew

Title of Invention: A Method for the Detection of Alzheimer's Disease Related Gene Transcripts in Blood

- Type: ☐ New  
☐ Continuation of:  
☐ Continuation-in-Part of:  
☒ Divisional of: Serial No. Not Yet Assigned; Atty. Docket No. 4231/2055B, Filed March 12, 2004, Entitled: A Method for the Detection of Coronary Artery Disease Related Gene Transcripts in Blood  
 which is hereby incorporated by reference in its entirety into the application filed herewith;

**and includes the following papers:**

1. ☒ Specification 271 pages (including specification, claims, abstract)/43 claims (24 independent)
2. ☒ Declaration/Power of Attorney is:  
☐ Executed ☐ Unexecuted ☐ Executed copy from Parent Application  
☒ NOT included, but deferred under 37 C.F.R. § 1.53(f).
3. ☒ 34 Distinct sheets of ☐ Formal ☒ Informal Drawings
4. ☒ Application Data Sheet
5. ☐ Preliminary Amendment.
6. ☐ Information Disclosure Statement  
☐ Form 1449 ☐ A copy of each cited prior art reference (as necessary)
7. ☐ Assignment with Recordation Cover Sheet.
8. ☒ Priority is hereby claimed under 35 U.S.C. § 119 based upon the following application(s):

| Country | Application Number | Date of Filing (day, month, year) |
|---------|--------------------|-----------------------------------|
| US      | 60/271,955         | 28 February, 2001                 |
| US      | 60/305,340         | 13 July, 2001                     |
| US      | 60/275,017         | 12 March, 2001                    |
| US      | 60/115,125         | 6 January, 1999                   |

9. ☒ Priority is hereby claimed under 35 U.S.C. § 120 based upon the following application(s):

| Application Number | Date of Filing (day, month, year) |
|--------------------|-----------------------------------|
| 10/601,518         | 20 June, 2003                     |

17607  
 033004  
 PTO

16235 U.S. PTO  
 10/812827

033004

# NEW UNITED STATES UTILITY PATENT APPLICATION TRANSMITTAL

Atty. Docket No.: 4231/2055R

|            |                   |
|------------|-------------------|
| 10/268,730 | 9 October, 2002   |
| 10/085,783 | 28 February, 2002 |
| 09/477,148 | 4 January, 2000   |
|            |                   |

10. ☒ Priority is hereby claimed under 35 U.S.C. § 121 based upon the following application(s):

| Application Number                             | Date of Filing (day, month, year) |
|--|-----------------------------------|
| Not Yet Assigned (Atty. Docket No. 4231/2055B) | March 12, 2004                    |

The above applications from which priority is claimed are hereby incorporated in their entirety into the application filed herewith.

11. ☐ Priority document(s).
12. ☐ Microfiche Computer Program (Appendix).
13. ☐ Nucleotide and/or Amino Acid Sequence Submission.  
☐ Computer Readable Copy.  
☐ Paper Copy (identical to computer copy).  
☐ Statement verifying identity of above copies.
14. ☒ Request for Non-Publication and Certification under 35 USC 122 (b)(2)(B)(i)
15. ☒ Statement of Small Entity Status, Pursuant to 37 C.F.R. § 1.27.

16. Calculation of Fees:

| FEES FOR   | TOTAL CLAIMS | EXCESS CLAIMS    | FEE      | -- AMOUNT DUE     |
|--|--------------|------------------|----------|-------------------|
| Basic Filing Fee (37 C.F.R. § 1.16(a))                           |              |                  |          | \$770.00          |
| Total Claims in <b>Excess of 20</b> (37 C.F.R. § 1.16(c))        | 195          | 175              | \$18.00  | 3,150.00          |
| Independent Claims in <b>Excess of 3</b> (37 C.F.R. § 1.16(b))   | 24           | 21               | \$86.00  | 1,806.00          |
| Multiple Dependent Claims (37 C.F.R. § 1.16(d))                  | YES          |                  | \$290.00 | 290.00            |
| Subtotal - Filing Fee Due  |              |                  |          | \$6,016.00        |
| Reduction by 50%, if Small Entity (37 C.F.R. §§ 1.9, 1.27, 1.28) |              | MULTIPLY BY 0.50 |          | \$3,008.00        |
| <b>TOTAL FILING FEE DUE</b>                                      |              |                  |          | <b>\$3,008.00</b> |
| Assignment Recordation Fee (if applicable) (37 C.F.R. § 1.21(h)) | 0            |                  | \$40.00  |                   |
| <b>GRAND TOTAL DUE</b>   |              |                  |          | <b>\$3,008.00</b> |

17. PAYMENT is:
- ☒ The Commissioner is hereby authorized to charge any fees to Deposit Account 16-0085, Ref. 4231/2055R.
- ☐ not included, but deferred under 37 C.F.R. § 1.53(f).

**NEW UNITED STATES UTILITY PATENT APPLICATION TRANSMITTAL**

**Atty. Docket No.: 4231/2055R**

18. All correspondence for the attached application should be directed to:


**Kathleen Williams**  
**Customer Number 29933**  
111 Huntington Avenue  
Boston, MA 02199-7613

19. Other: \_\_\_\_\_

Respectfully submitted,

Date: 3-30-04

By: \_\_\_\_\_

  
Name: Kathleen Williams  
Registration No.: 34,380

17607 U.S. PTO  
033004

Atty. Docket No.: 4231/2055R PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Choong-Chin Liew  
Serial No.: Not Yet Assigned  
Filed: March 30, 2004  
Entitled: A Method for the Detection of Alzheimer's  
Disease Related Gene Transcripts in Blood

16235 U.S. PTO  
10/812827  
033004

**CERTIFICATE OF MAILING UNDER 37 CFR 1.10**

I hereby certify that the paper (and any paper or fee referred to as being enclosed) is being deposited with the United States Postal Service using Express Mail to Addressee Service, under 37 C.F.R. Section 1.10, **Express Mail Label No. EV242756595US** on this date, **March 30, 2004**, postage prepaid, in an envelope addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Amy Decloux

Name of Person Mailing Paper

*Amy Decloux*

Signature of Person Mailing Paper

**Mail Stop Patent Application**  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

**TRANSMITTAL LETTER**

Enclosed for filing in the above-identified patent application, please find the following documents:

1. New Patent Application Transmittal;
2. Patent Application, (271 pages);
3. Thirty-Four (34) sheets of informal drawings of Figs 1 - 34;
4. Application Data Sheet;
5. Non-Pub Request (Request for Certification Under 35 U.S.C. 122(b)(2)(B)(i));
6. Two (2) CD-ROMs (called Tables - Copy 1, Tables - Copy 2) in the following format:

Machine Format: IBM-PC

Operating System: MS-Windows

Files Contained: See Chart Below

Size: 6.27MB

Date of Creation: March 29, 2004

and containing Tables 2 - 4. The content of each CD-ROM is identical and is as shown on the following chart:

Filed: March 30, 2004

|    | <u>TABLE</u> | <u>DESCRIPTION</u>         | <u>SIZE</u> | <u>CREATED</u> | <u>Text File Name</u> |
|----|--------------|----------------------------|-------------|----------------|-----------------------|
| 1  | 2            | multi-gene comparison      | 371,563     | 3/25/2004      | TABLE2.TXT            |
| 2  | 3A           | GLF 8 - hypertension       | 138,940     | 3/28/2004      | TABLE3A.TXT           |
| 3  | 3AA          | GLF 29 - asthma            | 36,121      | 3/27/2004      | TABLE3AA.TXT          |
| 4  | 3AB          | multi OA                   | 29,898      | 3/27/2004      | TABLE3AB.TXT          |
| 5  | 3AC          | GL MDS vs. schizo          | 114,078     | 3/27/2004      | TABLE3AC.TXT          |
| 6  | 3AD          | steroid differential       | 64,646      | 3/27/2004      | TABLE3AD.TXT          |
| 7  | 3B           | GLF 9 - obesity            | 147,421     | 3/25/2004      | TABLE3B.TXT           |
| 8  | 3C           | GLF 10 - allergies         | 95,700      | 3/25/2004      | TABLE3C.TXT           |
| 9  | 3D           | GLF 11 - steroids          | 93,808      | 3/25/2004      | TABLE3D.TXT           |
| 10 | 3E           | GLF 12 - hypertension      | 314,854     | 3/25/2004      | TABLE3E.TXT           |
| 11 | 3F           | GLF 13 - obesity           | 181,310     | 3/25/2004      | TABLE3F.TXT           |
| 12 | 3G           | GLF 14 - diabetes          | 146,212     | 3/26/2004      | TABLE3G.TXT           |
| 13 | 3H           | GLF 15 - hyperlipidemia    | 165,909     | 3/26/2004      | TABLE3H.TXT           |
| 14 | 3I           | GLF 16 - lung              | 92,936      | 3/25/2004      | TABLE3I.TXT           |
| 15 | 3J           | GLF 17 - bladder           | 1,143,423   | 3/26/2004      | TABLE3J.TXT           |
| 16 | 3K           | GLF 18 - bladder           | 953,119     | 3/26/2004      | TABLE3K.TXT           |
| 17 | 3L           | GLF 19 - Coronary Art Dis. | 246,178     | 3/26/2004      | TABLE3L.TXT           |
| 18 | 3M           | GLF 20 - rheumarth         | 329,672     | 3/26/2004      | TABLE3M.TXT           |
| 19 | 3N           | GLF 21 - depression        | 153,108     | 3/26/2004      | TABLE3N.TXT           |
| 20 | 3O           | GLF 22 - rheumarth         | 49,043      | 3/26/2004      | TABLE3O.TXT           |
| 21 | 3P           | GLF hypertension 577 only  | 84,945      | 3/26/2004      | TABLE3P.TXT           |
| 22 | 3Q           | GLF OA hypertension shared | 33,081      | 3/26/2004      | TABLE3Q.TXT           |
| 23 | 3R           | GL obesity 519             | 79,544      | 3/26/2004      | TABLE3R.TXT           |
| 24 | 3S           | GL obesity shared 152      | 24,583      | 3/26/2004      | TABLE3S.TXT           |
| 25 | 3T           | GL allergy specific        | 39,547      | 3/25/2004      | TABLE3T.TXT           |
| 26 | 3U           | GL allergy OA shared 241   | 35,603      | 3/25/2004      | TABLE3U.TXT           |
| 27 | 3V           | GL steroid 362             | 54,954      | 3/26/2004      | TABLE3V.TXT           |
| 28 | 3W           | GL OA steroid shared       | 31,459      | 3/27/2004      | TABLE3W.TXT           |
| 29 | 3X           | GLF 26 - liver cancer      | 435,093     | 3/27/2004      | TABLE3X.TXT           |
| 30 | 3Y           | GLF 27 - schizophrenia     | 578,949     | 3/26/2004      | TABLE3Y.TXT           |
| 31 | 3Z           | GLF 28 - chagas            | 202,477     | 3/28/2004      | TABLE3Z.TXT           |
| 32 | 4            | sequence listing           | 114,765     | 3/11/2004      | TABLE4.TXT            |

7. Return Post Card.

Pursuant to 37 C.F.R. § 1.27, Applicant claims small entity status.

The Commissioner for Patents is hereby authorized to charge any fees to Deposit Account No. 16-0085, Reference 4231/2055R. A duplicate of this transmittal letter is enclosed for this purpose.

Respectfully submitted,

Date: 3-30-04



Name: Kathleen Williams  
Registration No.: 34,380  
Customer No.: 29933  
Palmer & Dodge LLP  
111 Huntington Avenue  
Boston, MA 02199-7613  
Tel: 617-239-0100

Express Mail Label Number: EV242756595US

Date of Deposit: March 30, 2004

|  |                         |  |            |
|--|-------------------------|--|------------|
| <b>REQUEST AND CERTIFICATION<br/>UNDER<br/>35 U.S.C. 122(b)(2)(B)(i)</b> | First Named Inventor    |  | Liew       |
|  | Title:                  | A Method for the Detection of Alzheimer's<br>Related Gene Transcripts in Blood |            |
|  | Attorney Docket Number: |  | 4231/2055R |

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b)

3-30-04

Date



Signature

Kathleen Williams

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**